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TITLE : TREATMENT OF BASE OF POLYPROPYLENE LINING

ABSTRACT : PURPOSE: To enable application to a device excellent in heat and chemical resistance by bringing a metal with a formed coating film of  $\text{Fe}_3\text{O}_4$  into contact with an aq. soln. of resol type phenolic resin and then curing the resin.

CONSTITUTION: The surface of a metal is lined with polypropylene powder. At this time, the surface of the metal is degreased, washed, pickled and washed with water. The metal is then immersed in a boiling aq. soln. of sodium hydroxide, sodium orthophosphate or sodium nitrite and a coating film based on  $\text{Fe}_3\text{O}_4$  is formed on the surface of the metal. This metal is brought into contact with an aq. soln. of water-soluble resol type phenolic resin which is arbitrarily dissolved in water and causes a curing reaction at a temp. above the b.p. of water and the phenolic resin is cured at a temp. above the b.p. of water. A polypropylene lining excellent in exfoliation and blistering resistance can be provided.

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